

EDGE G Part I Position Evaluation Report

Employee: Weldon Job

Peer Group: Computer Systems

Previous Grade Level: GS-13

Summary Scores

Factor I –Assignment Characteristics	Factor II – Level of Responsibility
14	14

Grade Conversion: GS-14

Factor I – Assignment Characteristics

The panel assigned Grade 14 for this factor because:

Mr. Job designs and develops advanced image processing and electronic systems for aviation, spaceflight, and atmospheric research instruments. He is an acknowledged expert in designing and implementing state-of-the art embedded systems such as application specific integrated circuits (ASIC), field programmable gate arrays (FPGA), digital signal processors (DSP), and multi-chip modules (MCM) which he combines into new concepts for real-time image processing. He conceives and implements state-of-the art concepts and has successfully won proposals to support the work of the teams he leads. For the project, Earnex, he is using his expertise in implementing the capability that was once only software into real-time audio image processing hardware that is advancing the state-of-the art. This new version is scheduled to be flight tested on LaRC's 757 aircraft for the Flight Safety Program's Artificial Hearing Systems element. This work continues to gain much interest and could have far-reaching consequences in DoD and Homeland Security. He used the original software version for the Shuttle Columbia accident investigation to enhance Shuttle launch images. His work on other projects such as Little Bitty Airplanes Experiment (LBA) funded by the U.S. Army, as the audio image processing lead, and Temperature Monitoring Spacecraft (TMS), as the electronic subsystem lead, confirm his technical expertise in embedded systems and audio image processing, along with his ability to continue developing new and innovative electronics systems that advance the state of the art. The Army hopes to use LBA for monitoring combat units. For these projects he leads at least Center-wide teams and even inter-agency teams for which he coordinates work and resolves technical difficulties.

The requirements for GS-14 are fully met.

Factor II – Level of Responsibility***The panel assigned Grade 14 for this factor because:***

For Mr. Job' teams, he independently plans, designs, develops, and manages project activities. Within his area of expertise, he has full technical authority and his recommendations are accepted as technically sound by Project and Program managers. This is evident in his work on Earnex as the real-time hardware expert, along with his work on LBA and TMS as the audio image processing lead and electronics subsystem lead, respectively. In addition to interacting with key personnel within LaRC, NASA, and other agencies for his current projects, he is active in seeking out and exploring new research and development opportunities both inside and outside of NASA. He actively demonstrates his work and represents NASA at international conferences such as International Society for Audio Engineers. He has high professional stature as evidenced by his publication list, many software and hardware products, some of which have been used in demonstration projects and on satellites or are scheduled for flight tests. He is consulted by other technical specialists in other organizations, for example, the Shuttle Columbia accident investigation, and has received individual LaRC and NASA group awards.

The requirements for GS-14 are fully met.

General comments:

Very well-written package. The highlights made it very easy to find the most pertinent information